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**Structured Outline Rules**

**Sample Outline**

Names of reviewers:

1. Elvis Mondal 2021-05-15
2. Anirudh Edupuganti 2021-05-15

**User Emotion Analysis Using Artificial Intelligence**

**Introduction**

This paper is about analyzing the emotion and sentiment of users across various platforms like reviews, social media [1], etc. among others. The emotions are captured, analyzed and the findings in the form of a dashboard are proposed. Statements and arguments supporting that the analysis is ethical is mentioned and finally, drawbacks of the proposed analysis are discussed.

**The problem**

Social media and the internet in general are filled with negative as well as positive content and the dominance of negative content is more compared to the latter, and it is important to analyze the emotions that a user goes through.

Consider an example of social media where users are posting negative, abusive comments on others.

This can create adverse effect on the person posted and the person receiving it on the other end.

It is important to have an emotion analysis system to know the mood/emotion of a person and help in removing any negative state of mind which in turn prevents any adverse effect on that person.

**The proposed solution**

To solve this problem, the first step involves gathering the user’s social media posts [2] from a particular time range (viz., 48 hours), extracting and cleaning the data.

Secondly, from the cleaned data, the keywords are categorized [2] (e.g.: angry, happy, depressed, etc.), separated and is prepared to be transferred to the training model.

For this system to work, the keywords are repeatedly trained [3] until a certain level of accuracy is achieved.

After the training is done, the most prominent sentiment is displayed to the user.

Based on the sentiment type, suggestions are displayed to the user to mitigate the problem and adopt positive nature.

All these data are visualized with the help of a dashboard so that the user understands it easily.

**Ethical Usage**

The emotion analysis model includes collecting user data.

The consent of the user is taken for this system.

Building a system like this is ethical since it helps reduces negativity around the world.

Further, it helps users to reform themselves too.

It is within the limits of ethical usage policy.

**Problems with the proposed solution:**

Training large volume of data requires high computational power.

The accuracy of the training model might not be 100%.

Consent of users is important and not everyone will give consent to analyze their social media posts.

**Conclusion:**Analysis emotions of users is important, and it helps to eliminate negative feelings in them which in turn creates a healthy space. It is ethical to build such a system and hence, it should be adopted.

**Summary:**In this paper we have given the details of user emotion analysis by leveraging artificial intelligence. We discussed the problem, the proposed solution that includes extracting, analyzing data and presenting it in a visually appealing form. We showed that our solution is ethical and can be adopted. Our solution is important for users and helps mitigate negativism in human beings.

# Bibliography

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